

Form PTO-1449

(MODIFIED)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

029493/0138

SERIAL NO.

09/671,814

INFORMATION DISCLOSURE CITATION

Date Filed: March 29, 2002

(Use several sheets if necessary)

APPLICANT

Kaname KONO

FILING DATE

September 27, 2000

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1742

U.S. PATENT DOCUMENTS

| INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
|---------|-----|--------------------|---------|--------------------|-------|---------------|-------------------------------|
| AW | A1 | 2,386,966 | 10/1945 | MacMILLIN | | | |
| | A2 | 2,505,540 | 4/1950 | GOLDHARD | | | |
| | A3 | 2,529,146 | 11/1950 | FEITL | | | |
| | A4 | 2,785,448 | 3/1957 | HODLER | | | |
| | A5 | 3,048,892 | 08/1962 | DAVIS, Jr. et al. | | | |
| | A6 | 3,106,002 | 10/1963 | BAUER | | | |
| | A7 | 3,189,945 | 06/1965 | STRAUSS | | | |
| | A8 | 3,201,836 | 08/1965 | NYSELIUS | | | |
| | A9 | 3,254,377 | 06/1966 | MORTON | | | |
| | A10 | 3,268,960 | 08/1966 | MORTON | | | |
| | A11 | 3,270,383 | 09/1966 | HALL et al. | | | |
| | A12 | 3,319,702 | 05/1967 | HARTWIG et al. | | | |
| | A13 | 3,344,848 | 10/1967 | HALL et al. | | | |
| | A14 | 3,447,593 | 06/1969 | NYSELIUS et al. | | | |
| | A15 | 3,529,814 | 09/1970 | WERNER | | | |
| | A16 | 3,550,207 | 12/1970 | STRUSS | | | |
| | A17 | 3,693,702 | 09/1972 | PIEKENBRINK et al. | | | |
| | A18 | 3,810,505 | 05/1974 | CROSS | | | |
| | A19 | 3,814,170 | 06/1974 | KAHN | | | |
| | A20 | 3,874,207 | 04/1975 | LEMELSON | | | |
| | A21 | 3,893,792 | 07/1975 | LACZKO | | | |
| | A22 | 3,902,544 | 09/1975 | FLEMINGS et al. | | | |
| | A23 | 3,936,298 | 2/1976 | MEHRABIAN et al. | | | |
| | A24 | 3,976,118 | 08/1976 | KAHN | | | |
| | A25 | 4,049,040 | 09/1977 | LYNCH | | | |
| | A26 | 4,088,178 | 05/1978 | UENO et al. | | | |
| | A27 | 4,168,789 | 09/1979 | DESHAIS et al. | | | |
| AW | A28 | 4,212,625 | 07/1980 | SHULL | | | |

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|---------------------|-----|--------------------|---------|-------------------|-------|---------------|-------------------------------|
| <i>W</i> | B1 | 4,287,935 | 09/1981 | UENO et al. | | | |
| | B2 | 4,330,026 | 05/1982 | FINK | | | |
| | B3 | 4,347,889 | 09/1982 | KOMATSU et al. | | | |
| | B4 | 4,434,839 | 03/1984 | VOGEL | | | |
| | B5 | 4,436,140 | 03/1984 | EBISAWA et al. | | | |
| | B6 | 4,473,103 | 09/1984 | KENNEY et al. | | | |
| | B7 | 4,476,912 | 10/1984 | IARVILL | | | |
| | B8 | 4,510,987 | 04/1985 | COLLOT | | | |
| | B9 | 4,534,403 | 08/1985 | HARVILL | | | |
| | B10 | 4,537,242 | 08/1985 | PRYOR et al. | | | |
| | B11 | 4,559,991 | 12/1985 | MOTOMURA et al. | | | |
| | B12 | 4,586,560 | 05/1986 | IKEYA et al. | | | |
| | B13 | 4,687,042 | 08/1987 | YOUNG | | | |
| | B14 | 4,694,881 | 09/1987 | BUSK | | | |
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| | B16 | 4,730,658 | 03/1988 | NAKANO | | | |
| | B17 | 4,771,818 | 09/1988 | KENNEY | | | |
| | B18 | 4,828,460 | 05/1989 | SAITO et al. | | | |
| | B19 | 4,884,621 | 12/1989 | BAN et al. | | | |
| | B20 | 4,997,027 | 03/1991 | AKIMOTO | | | |
| | B21 | 5,040,589 | 08/1991 | BRADLEY et al. | | | |
| | B22 | 5,143,141 | 09/1992 | FRULLA | | | |
| | B23 | 5,144,998 | 09/1992 | HIRAI et al. | | | |
| | B24 | 5,161,598 | 11/1992 | IWAMOTO et al. | | | |
| | B25 | 5,181,551 | 01/1993 | KIDD et al. | | | |
| | B26 | 5,186,236 | 02/1993 | GABATHULER et al. | | | |
| | B27 | 5,205,338 | 04/1993 | SHIMMELL | | | |
| <i>W</i> | B28 | 5,244,033 | 09/1993 | UENO | | | |

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|---------------------|-----|--------------------|---------|-----------------|-------|---------------|-------------------------------|
| AW | C1 | 5,375,645 | 12/1994 | BRUEKER et al. | | | |
| | C2 | 5,380,187 | 01/1995 | FUJIKAWA | | | |
| | C3 | 5,394,931 | 03/1995 | SHIINA et al. | | | |
| | C4 | 5,501,266 | 03/1996 | WANG et al. | | | |
| | C5 | 5,531,261 | 07/1996 | YOSHIDA et al. | | | |
| | C6 | 5,533,562 | 07/1996 | MOSCHINI et al. | | | |
| | C7 | 5,571,346 | 11/1996 | BERGSMA | | | |
| | C8 | 5,575,325 | 11/1996 | SUGIURA et al. | | | |
| | C9 | 5,577,546 | 11/1996 | KJAR et al. | | | |
| | C10 | 5,601,136 | 02/1997 | SHIMMELL | | | |
| | C11 | 5,622,216 | 04/1997 | BROWN | | | |
| | C12 | 5,623,984 | 04/1997 | NOZAKI et al. | | | |
| | C13 | 5,630,463 | 05/1997 | SHIMMELL | | | |
| | C14 | 5,630,466 | 05/1997 | GARAT et al. | | | |
| | C15 | 5,638,889 | 06/1997 | SUGIURA et al. | | | |
| | C16 | 5,657,812 | 08/1997 | WALTER et al. | | | |
| | C17 | 5,662,159 | 09/1997 | IWAMOTO et al. | | | |
| | C18 | 5,664,618 | 09/1997 | KAI et al. | | | |
| | C19 | 5,665,302 | 09/1997 | BENNI et al. | | | |
| | C20 | 5,680,894 | 10/1997 | KILBERT | | | |
| | C21 | 5,685,357 | 11/1997 | KATO et al. | | | |
| | C22 | 5,697,422 | 12/1997 | RIGHI et al. | | | |
| | C23 | 5,697,425 | 12/1997 | NANBA et al. | | | |
| | C24 | 5,701,942 | 12/1997 | ADACHI et al. | | | |
| | C25 | 5,704,411 | 01/1998 | SUZUKI et al. | | | |
| | C26 | 5,716,467 | 02/1998 | MARDER et al. | | | |
| | C27 | 5,730,198 | 03/1998 | SIRCAR | | | |
| AW | C28 | 5,730,202 | 03/1998 | SHIMMELL | | | |

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| AW | D1 | 5,735,333 | 04/1998 | NAGAWA | | | |
| | D2 | 5,836,372 | 11/1998 | KONO | | | |
| | D3 | 5,983,976 | 11/1999 | KONO | | | |
| | D4 | 6,065,526 | 05/2000 | KONO | | | |
| | D5 | 6,135,196 | 10/2000 | KONO | | | |
| | D6 | 6,241,001 B1 | 06/2001 | KONO | | | |
| | D7 | 6,276,434 B1 | 08/2001 | KONO | | | |
| | D8 | 6,283,197 B1 | 09/2001 | KONO | | | |
| AW | D9 | 6,284,167 B1 | 09/2001 | FUJIKAWA | | | |

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FOREIGN PATENT DOCUMENTS

| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION | |
|----|-----|--------------------|---------|---------|-------|---------------|-------------|----|
| | | | | | | | YES | NO |
| AW | E1 | 0 476 843 | 03/1992 | EPO | | | | |
| | E2 | 0 761 344 | 03/1997 | EU | | | | |
| | E3 | 59-152826 | 08/1984 | JP | | | | |
| | E4 | 1-166874 | 06/1989 | JP | | | | |
| | E5 | 1-178345 | 07/1989 | JP | | | | |
| | E6 | 1-192447 | 08/1989 | JP | | | | |
| | E7 | 2-202420 | 08/1990 | JP | | | | |
| | E8 | 2-274360 | 01/1993 | JP | | | | |
| | E9 | 5-8017 | 01/1993 | JP | | | | |
| | E10 | 5-285626 | 11/1993 | JP | | | | |
| | E11 | 5-285627 | 11/1993 | JP | | | | |
| | E12 | 6-306507 | 11/1994 | JP | | | | |
| | E13 | 7-51827 | 02/1995 | JP | | | | |
| | E14 | 8-174172 | 07/1996 | JP | | | | |
| | E15 | 8-72110 | 03/1996 | JP | | | | |
| | E16 | 8-252661 | 10/1996 | JP | | | | |
| | E17 | 9-103859 | 04/1997 | JP | | | | |
| | E18 | 9-155524 | 06/1997 | JP | | | | |
| | E19 | 9-155526 | 06/1997 | JP | | | | |
| | E20 | 9-155527 | 06/1997 | JP | | | | |
| | E21 | 9-295122 | 11/1997 | JP | | | | |
| | E22 | 153528 | 03/1991 | TA | | | | |
| | E23 | 196 11 419 | 09/1996 | DE | | | | |
| | E24 | 1.447.606 | 11/1996 | FR | | | | |
| | E25 | 97/21509 | 06/1997 | WIPO | | | | |
| | E26 | 97/45218 | 12/1997 | WIPO | | | | |
| AW | E27 | 99/50007 | 10/1999 | WIPO | | | | |

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| OTHER DOCUMENTS (Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.) | | | | | | | |
| AW | F1 | MEHRABIAN et al., "Casting in the Liquid-Solid Region," <u>New Trends in Materials Processing</u> , papers presented at a seminar of American Society for Metals, Oct. 19 and 20, 1974, ASM, Metals Park, OH, pp. 98-127 | | | | | |
| | F2 | FLEMINGS et al., "Rheocasting," <u>Challenges and Opportunities in Materials Science and Engineering</u> (Anniversary Volume), vol. 25 (1976), Elsevier Sequoia S.A., Lausanne, pp. 103-117. | | | | | |
| | F3 | FLEMINGS et al., "Rheocasting," <u>McGraw-Hill Yearbook of Science and Technology</u> , 1977, McGraw-Hill Book Company, NY, pp. 49-58 | | | | | |
| | F4 | LAXMANAN et al., "Deformation of Semi-Solid Sn-15 Pct. Pb Alloy," <u>Metallurgical Transactions A</u> , vol. 11A: no. 12, Dec. 1980, pp. 1927-1937, | | | | | |
| | F5 | MATSUMIYA et al., "Modeling of Continuous Strip Production by Rheocasting," <u>Metallurgical Transactions B</u> , vol. 12B, no. 1, Mar. 1981, pp 17-31 | | | | | |
| | F6 | SUERY et al., "Effect of Strain Rate on Deformation Behavior of Semi-Solid Dendritic Alloys," <u>Metallurgical Transactions A</u> , vol. 13A, no. 10: Oct., 1982, pp. 1809-1819 | | | | | |
| | F7 | WORTHY, Ward, "Injection Molding of Magnesium Alloys," <u>Chemical & Engineering News</u> , vol. 66, no. 23, June 6, 1988, pp. 29-30 | | | | | |
| | F8 | TISSIER et al., "Magnesium rheocasting: a study of processing-microstructure interactions," <u>Journal of Materials Science</u> , vol. 25 (1990), Chapman and Hall Ltd., pp 1184-1196. | | | | | |
| | F9 | CARNAHAN et al., "New Manufacturing Process for Metal Matrix Composite Synthesis," <u>Fabrication of Particulates Reinforced Metal Composites</u> , Proceedings of an International Conference, Montreal, Quebec, Sep. 17-29, 1990, ASM International, Metals Park, Ohio; pp 101-105. | | | | | |
| | F10 | FLEMINGS, "Behavior of Metal Alloys in the Semisolid State," <u>Metallurgical Transactions B</u> , vol. 22B, no. 3, Jun 1991, pp 269-293 | | | | | |
| | F11 | PASTERNAK et al., "Semi-Solid Production Processing of Magnesium Alloys by Thixomolding," Proceedings of the Second International Conference on the Semi-Solid Processing of Alloys and Composites, MIT, Cambridge, MA, June 10-12, 1992, TMS, Warrendale, PA, pp. 159-169. | | | | | |
| | F12 | BROWN et al., "Net Shape Forming via Semi-Solid Processing," <u>Advanced Materials & Processes</u> , vol. 143, no. 1, Jan. 1993, ASM International, Metals Park, OH, pp 36-40 | | | | | |
| | F13 | CARNANAN et al., "Advances in Thixomolding," 52nd Annual World Magnesium Conference, Berlin, Germany, May 17-19, 1994 | | | | | |
| | F14 | FUJIKAWA, Misao, Conference Material, Sodick Plastech Co., Ltd., July 1995, pp 1-14 | | | | | |
| | F15 | Staff Report, "Semi-Solid Metalcasting Gains Acceptance, Applications," <u>Foundry Management & Technology</u> , Nov. 1995, Japan, pp. 23-26 | | | | | |
| | F16 | Tuparl Injection Molding Machine Advertisement, Sodick Plastech Co., Ltd., May 1997 | | | | | |
| | F17 | "Plastic Processing Technology Book," Published in Japan (ISBN 4-526-00035-3) | | | | | |
| | AW | F18 | Material Science & Technology Textbook, Fig. 1-67(b), p 52 | | | | |
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